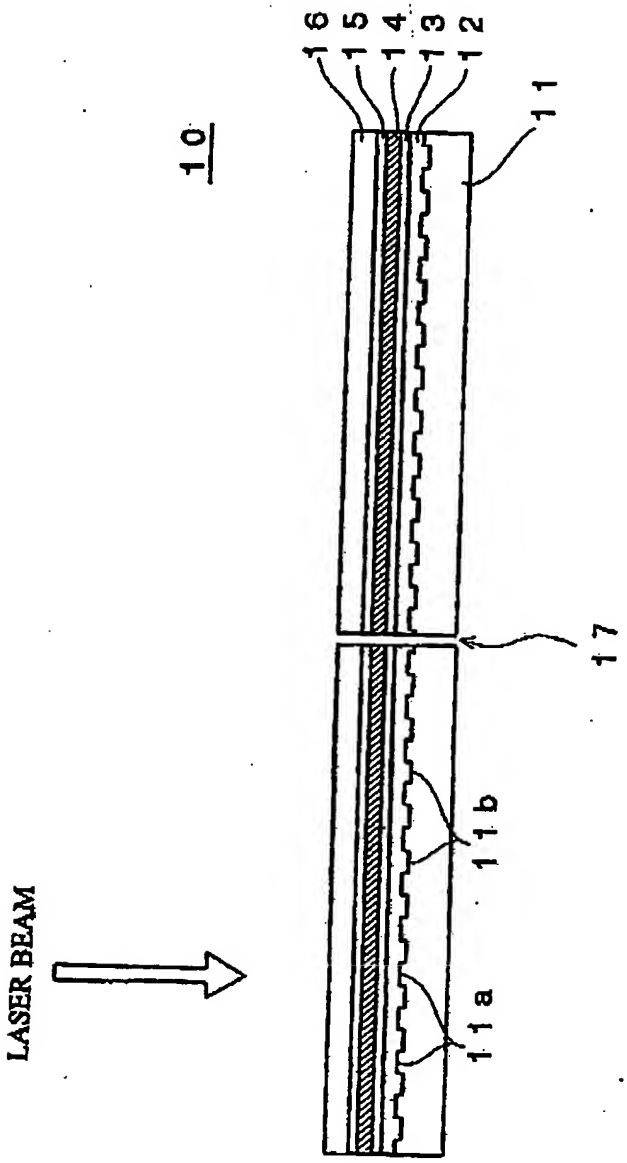


FIG. 1

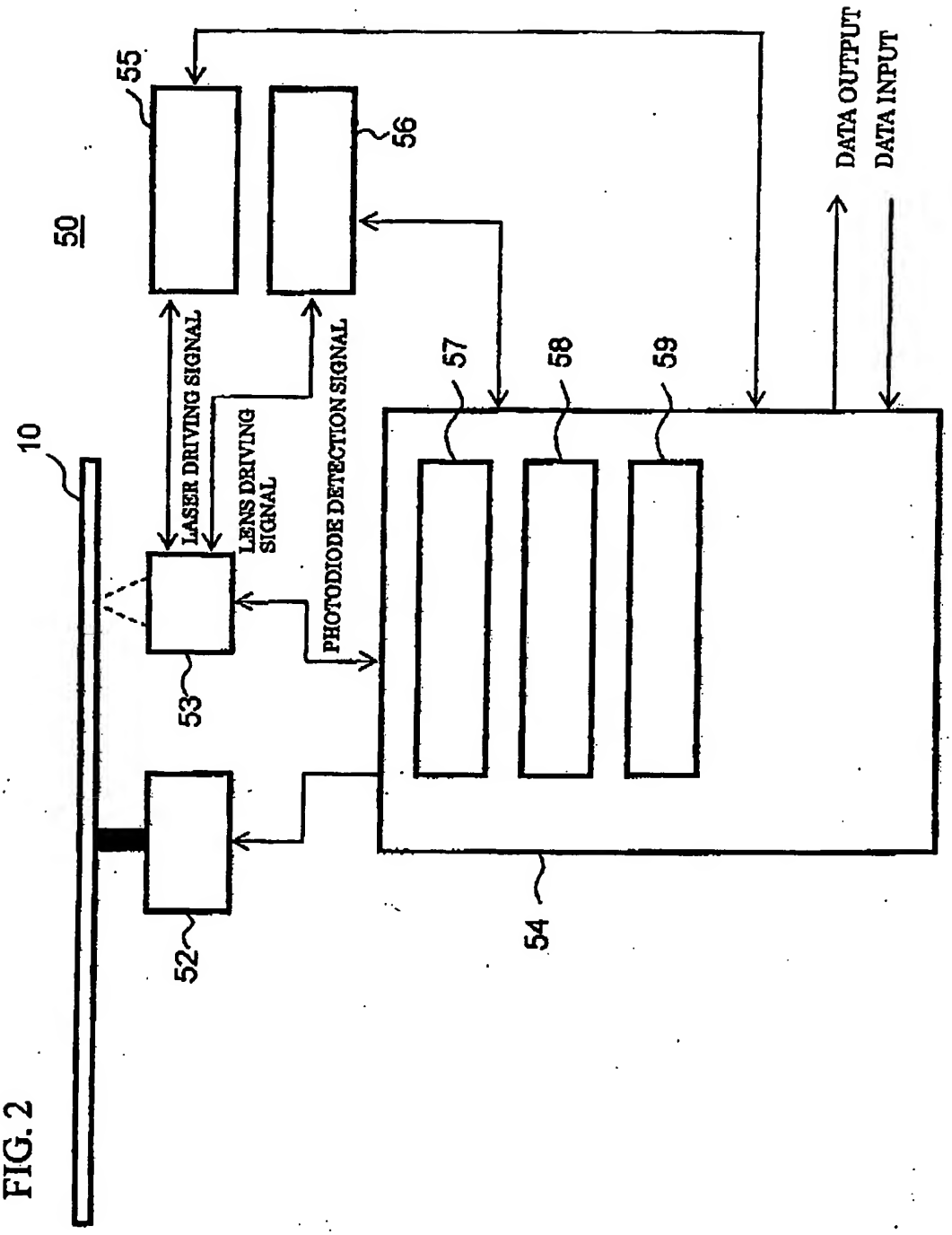

55
56
50
DATA OUTPUT
DATA INPUT
LASER DRIVING SIGNAL
LENS DRIVING SIGNAL
PHOTODIODE DETECTION SIGNAL
57
58
59
10
53
52
54

FIG. 2

FIG. 3

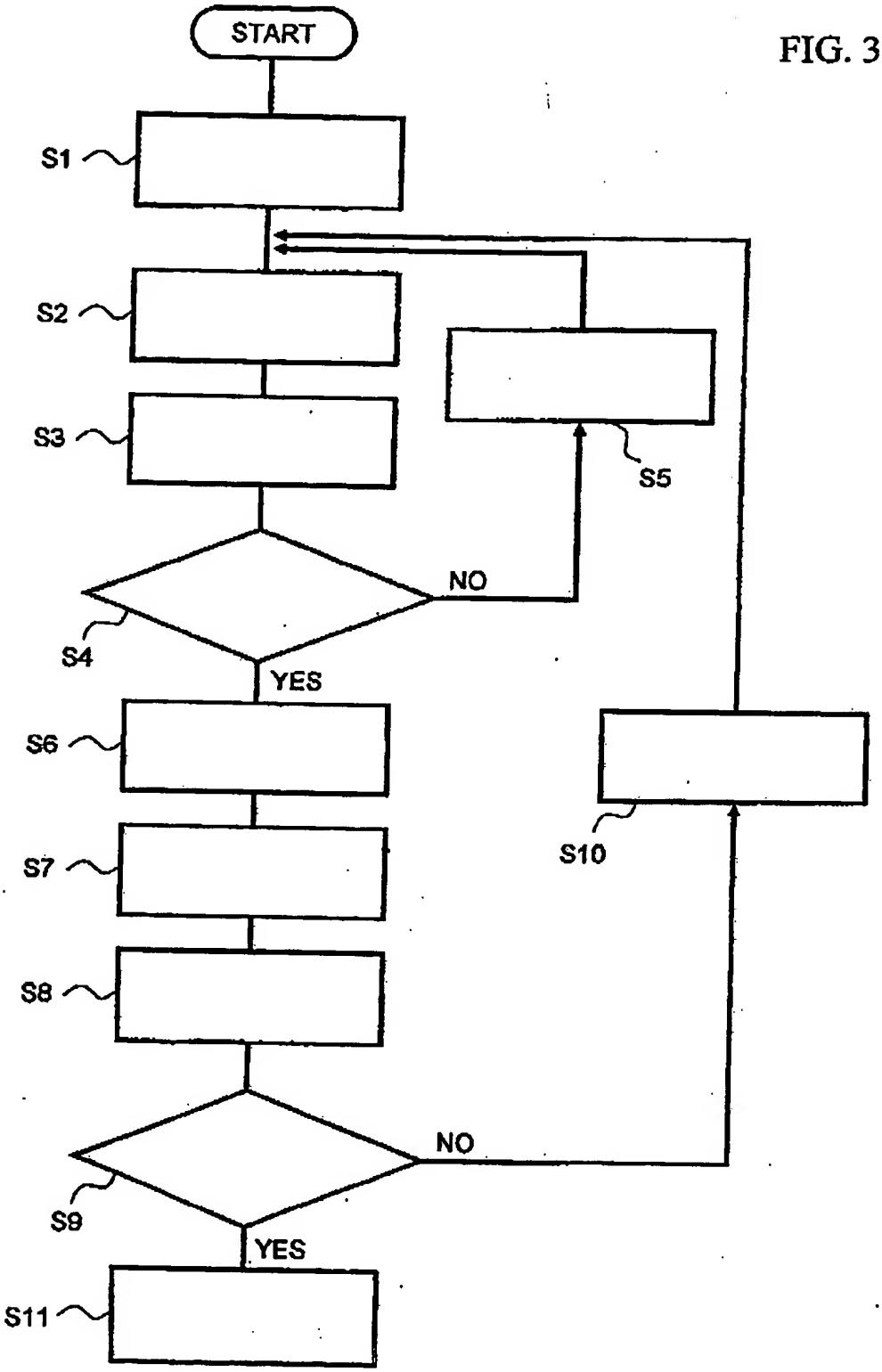


FIG. 4

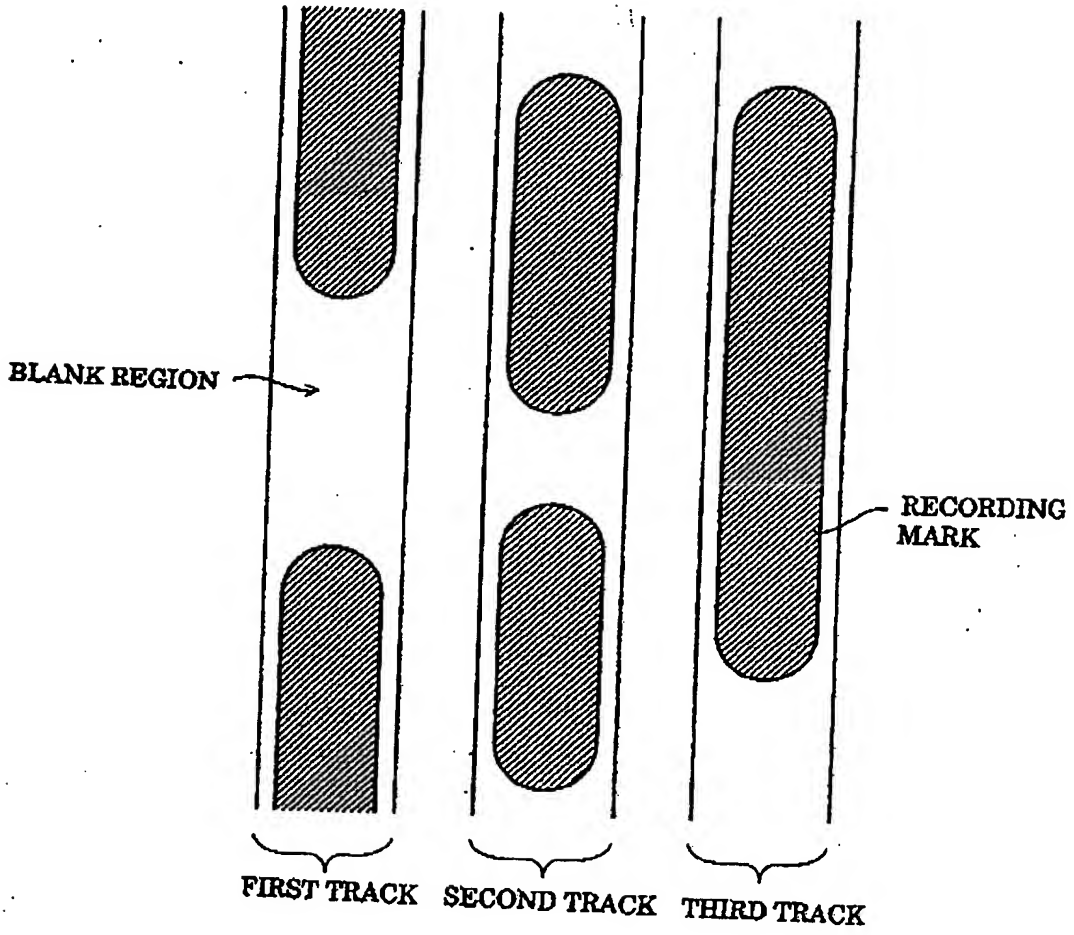

BLANK REGION
RECORDING MARK
FIRST TRACK
SECOND TRACK
THIRD TRACK

FIG. 5

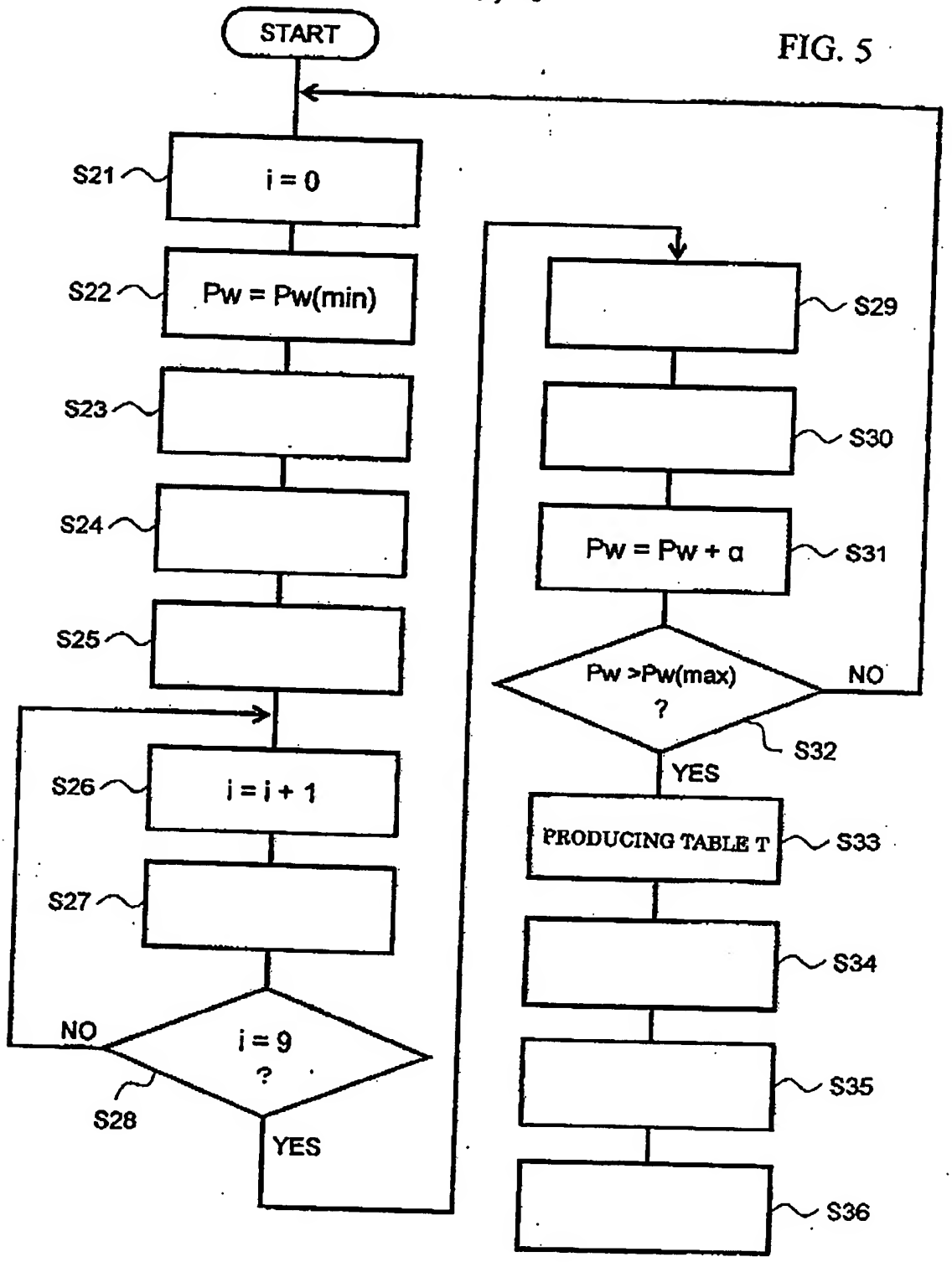

START
S21
i = 0
S22
Pw = Pw(min)
S23
S24
S25
S26
i = i + 1
S27
NO
i = 9
?
S28
YES
S29
S30
Pw = Pw + α
S31
Pw >Pw(max)
?
NO
S32
YES
PRODUCING TABLE T
S33
S34
S35
S36

FIG. 6

T

	R1	R2	R3
Pw = Pw(min)	******	******	******
Pw = Pw(min)+ α	******	******	******
⋮	⋮	⋮	⋮
Pw = Pw(max)	******	******	******

FIG. 7

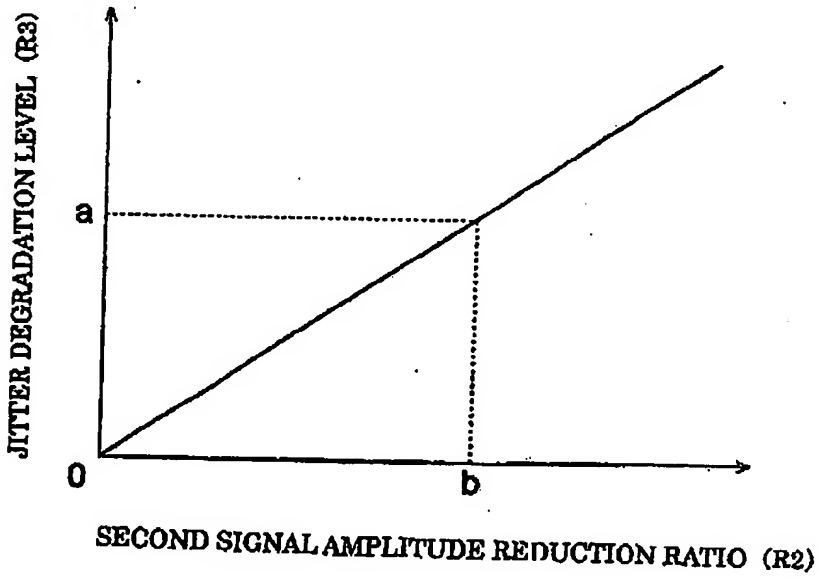


FIG. 8

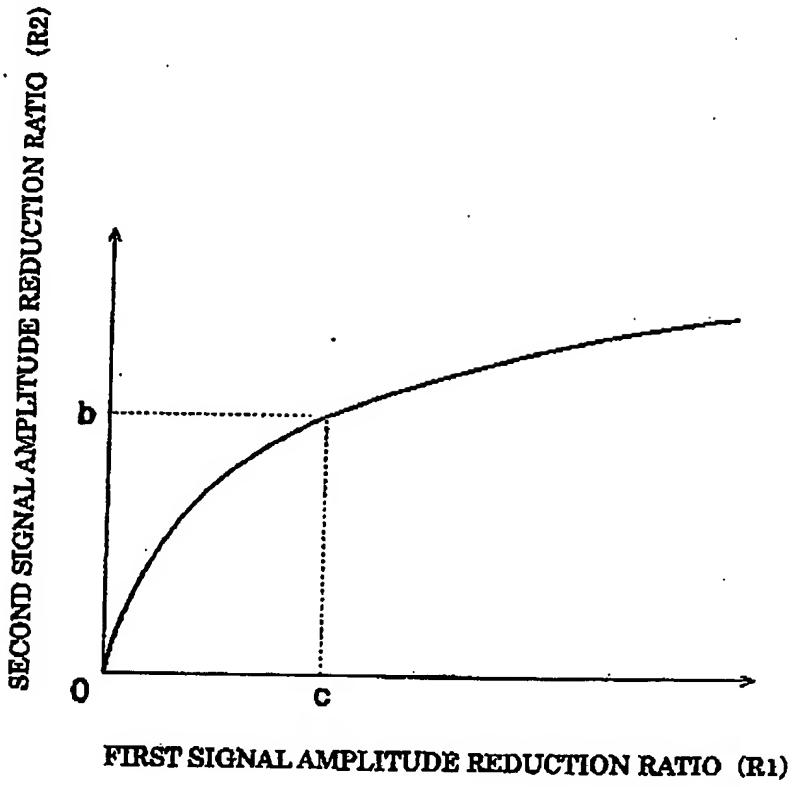
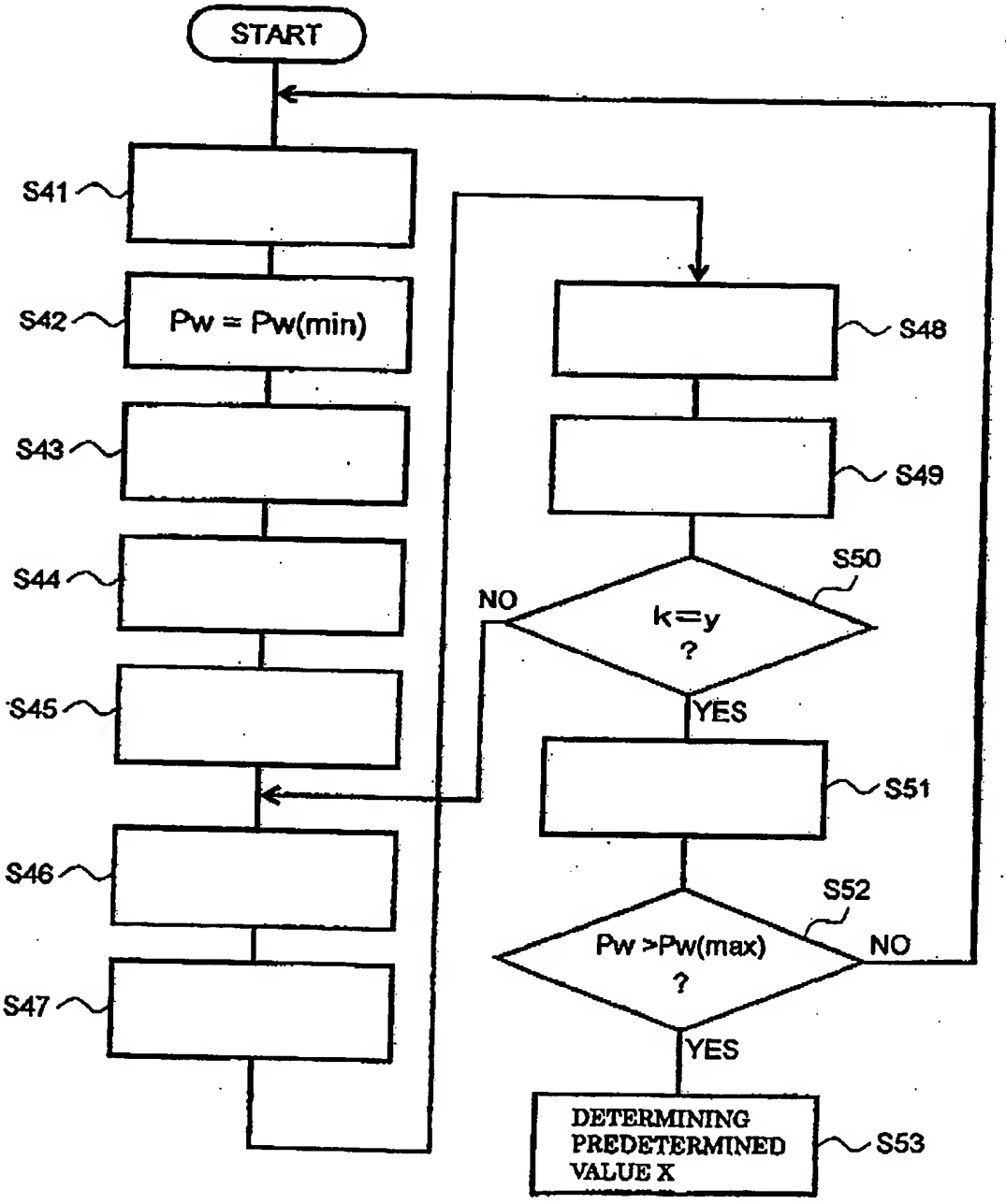

SECOND SIGNAL AMPLITUDE REDUCTION RATIO (R2)
b
0
c
FIRST SIGNAL AMPLITUDE REDUCTION RATIO (R1)

FIG. 9


START
S41
S42
Pw = Pw(min)
S43
S44
S45
S46
S47
S48
S49
S50
k=y ?
NO
YES
S51
S52
Pw >Pw(max) ?
NO
YES
DETERMINING PREDETERMINED VALUE X
S53

52……SPINDLE MOTOR
53……HEAD
54……CONTROLLER
55……LASER DRIVING CIRCUIT
56……LENS DRIVING CIRCUIT
57……FOCUS SERVO CIRCUIT
58……TRACKING SERVO CIRCUIT
59……LASER CONTROL CIRCUIT
S1……RECORDING TEST SIGNAL
S2……REPRODUCING TEST SIGNAL RECORDED ON SECOND TRACK
S3……MEASURING PREDETERMINED SIGNAL CHARACTERISTICS
S4……SIGNAL CHARACTERISTICS SATISFIES REFERENCE CONDITIONS ?
S5……CHANGING RECORDING POWER *PW* AND RECORDING TEST SIGNAL
S6……REPRODUCING TEST SIGNALS RECORDED ON SECOND TRACK AND THIRD TRACK
S7……MEASURING AMPLITUDE OF SIGNAL
S8……CALCULATING FIRST SIGNAL AMPLITUDE REDUCTION RATIO (R1)
S9……R1 IS EQUAL TO OR LOWER THAN RC ?
S10……LOWERING RECORDING POWER *PW* AND RECORDING TEST SIGNAL
S11……DETERMINING OPTIMUM RECORDING POWER *PW*
S23……RECORDING TEST SIGNAL
S24……REPRODUCING TEST SIGNALS RECORDED ON SECOND TRACK AND THIRD TRACK
S25……MEASURING JITTER AND AMPLITUDE OF SIGNAL
S27……RECORDING TEST SIGNAL
S29……REPRODUCING TEST SIGNAL RECORDED ON SECOND TRACK
S30……MEASURING JITTER AND AMPLITUDE OF SIGNAL
S33……PRODUCING TABLE T
S34……PRODUCING FIRST GRAPH
S35……PRODUCING SECOND GRAPH
S36……DETERMINING RC
S41……K = 0
S43……RECORDING TEST SIGNAL
S44……REPRODUCING TEST SIGNALS RECORDED ON SECOND TRACK AND THIRD TRACK
S45……MEASURING JITTER OF SIGNAL
S46……K = K + 1
S47……RECORDING TEST SIGNAL
S48……REPRODUCING TEST SIGNAL RECORDED ON SECOND TRACK
S49……MEASURING JITTER OF SIGNAL
S51……PW = PW + B